Electronic Version
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Claims

[c1] 1. A wave-fan with a heat sink, comprising a wave-fan, a heat sinking means and a motor means for rotating the wave-fan relative to the heat sinking means,
the heat sinking means having at least one active heat dissipating surface,
the wave-fan having at least one active fluid moving surface which conforms generally to the at least one active heat dissipating surface of the heat sinking means, and the at least one active fluid moving surface of the wave-fan comprising a plurality of ridges and valleys having a roughly sinusoidal contour along the direction of rotation of the wave fan.

[c2] 2. The wave-fan with a heat sink of claim 1 wherein the at least one active heat dissipating surface of the heat sinking means and the at least one active fluid moving surface of the wave fan are generally flat surfaces.

[c3] 3. The wave-fan with a heat sink of claim 1 wherein the at least one active heat dissipating surface of the heat sinking means and the at least one active fluid moving surface of the wave fan are generally cylindrical surfaces.

[c4] 4. .The wave-fan with a heat sink of claim 2 wherein the wave-fan further comprises a plurality of fluid inlet ports inboard of the at least one active fluid moving surface.

[c5] 5. The wave-fan of claim 4 wherein the plurality of fluid inlet ports wherein the plurality of fluid inlet ports are orientated such that fluid entering the plurality of fluid inlet ports flows against the centrifugal force generated by the rotation of the wave-fan.

[c6] 6. A wave-fan for causing a pulsating motion within a heat conducting fluid within an immediately adjacent heat sinking means comprising
at least one active fluid moving surface facing the heat sinking means comprising
a plurality of ridges and valleys having a roughly sinusoidal contour along the direction of rotation, and
a motor means for rotating the wave-fan.

[c7] 7. The wave fan of claim 6 wherein the wave fan is a wave-plane fan and the at least one active fluid moving surface conforms to a flat heat sinking means.

[c8] 8. The wave fan of claim 6 wherein the wave fan is a wave-ring fan and the at least one active fluid moving surface conforms to a cylindrical heat sinking means.